

## Chapter 4 Quiz Review

Lessons 4-1 through 4-3

### Congruency

1. Two triangles have the following pairs of congruent sides:  $\overline{BD} \cong \overline{FJ}$ ,  $\overline{DG} \cong \overline{JM}$ ,  
and  $\overline{GB} \cong \overline{MF}$ . Write the congruence statement for the two triangles.

3 1 3 1

$$\triangle BDG \cong \triangle FJM$$

1 2 3      1 2 3

$\triangle QRS \cong \triangle TUV$ . Name the angle or side that corresponds to the given part.

1 2 3      1 2 3

2.  $\angle Q \cong \angle T$

1      1

3.  $\overline{RS} \cong \overline{UV}$

2 3      2 3

4.  $\angle S \cong \angle T$

3      3

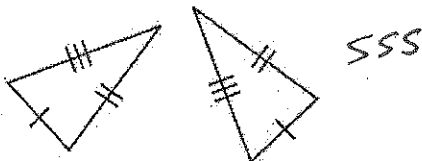
5.  $\overline{QS} \cong \overline{TV}$

1 3      1 3

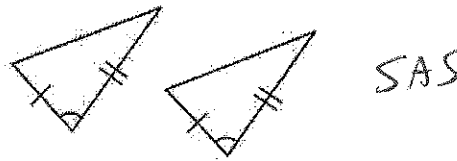
State the postulate or theorem that can be used to prove the triangles congruent. If you cannot prove the triangles congruent, write *not enough information*.

SSS  
SAS  
ASA  
AAS

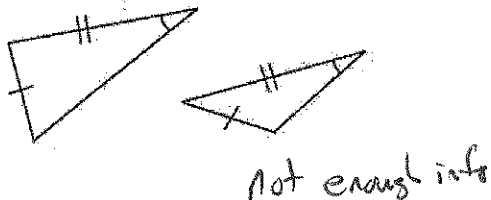
6.



7.



8.

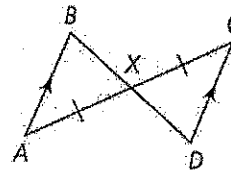


9.



Use the diagram at the right. Tell why each statement is true.

10.  $\angle A \cong \angle C$  alternate interior angles  
11.  $\angle AXB \cong \angle CXD$  vertical angles  
12.  $\triangle ABX \cong \triangle CDX$  ASA



Complete the following statements.

13. Given:  $\triangle FGH \cong \triangle WAX$

a.  $\overline{GH} \cong \overline{AX}$

2 3      2 3

b.  $\angle W \cong \angle F$

1      1

14. Given:  $\triangle BIKE \cong \triangle PATH$

a.  $\angle T \cong \angle K$

3      3

b.  $\triangle THPA \cong \triangle KEIB$

3 4 1 2      3 4 2 1